OXOLINIC ACID

SKRIPSI

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VALIDASI METODE KLT – DENSITOMETRI UNTUK PENETAPAN KADAR ASAM OKSOLINAT DALAM UDANG

FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
BAGIAN KIMIA FARMASI
SURABAYA
2004

Lembar Pengesahan

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SKRIPSI

Dibuat Untuk Memenuhi Syarat
Mencapai Gelar Sarjana Farmasi Pada Fakultas Farmasi
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2004

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ABSTRACT

A simple TLC densitometric method has been developed for the determination of oxolinic acid residue in shrimps. The method involves use of silica gel GF 254 nm after being impregnated with 5% EDTA, and chloroform-aceton (10:1, v/v) as a mobile phase. The separated bands were detected at λ 260 nm. The respond was found to be linearity dependent on amount of oxolinic acid between 62.50 ng/5µl and 312.88 ng/5µl (r = 0.9943, Y = 22.475 X + 411.58, Vxo = 6.59%). The method was validated to determine the limit of detection, limit of quantitation, accuracy and precision. The results showed that the limit of detection and limit of quantitation value are 7.81 ng/5µl and 26.04 ng/5µl, where as the accuracy and precision are 63.98% and 7.79%, respectively.

Keywords : oxolinic acid, impregnation, shrimp, limit of detection, limit of quantitation.